

CH/Head/2025-48

81/06/2024

To
The Director,
Regional Office (South Eastern Zone)
Ministry of Environment, Forests and Climate Change
1st and 2nd Floor, Handloom Export Promotion Council,
34, Cathedral Garden Road,
Hugubhatkum, Chennai-600024

Dear Sir,

Sub: Half yearly DC (Environment Clearance) Compliance Report- regd.

Ref: P. No. 1100/L/2006/2009-14 & (D) dated 18.05.2007

Please find the attached half yearly compliance report of Environment Clearance issued by MOEFCE for enhanced production capacity of Phosphoric acid plant from 500 MT/yr to 700 MT/yr.

Period of submission : Oct'23 to Mar'24

Yrly : Coromandel International Limited, Visakhapatnam

Faithfully Yrs,

For Coromandel International Limited


M. Ganesan
VP - Head Manufacturing


Encl : 1-2

CC: The Member Secretary, Head Office APFC, Visakhapatnam
and Chief Environmental Engineer, APFC, Zonal Office, Visakhapatnam
Environmental Engineer, APFC, Regional Office, Visakhapatnam

SHG-Vizag-Coromandel

From: Nagaraju D-Vizag-SHG-Vizag-Coromandel
Sent: 01 June 2023 17:06
To: ecompliance-ap@pvc.in; kv042906@gmail.com; zenvsp@pvc.in
Cc: Subhadeb Mondal-Vizag-Environment-Vizag-Coromandel; SHG-Vizag-Coromandel; Nagaraju D-Vizag-SHG-Vizag-Coromandel; Vinod Kumar Mishra-GH&H-Vizag-Coromandel
Subject: Half yearly SC (Environment Clearance) Compliance Report- vizag
Attachment: SC Compliance_34 150MTRD_Mar 23.pdf

Dear Sir,

Ref: E. No. 33/2023/SHG/2008-IA-1/3 dated 18.05.2023

Please find the attached half yearly compliance report of Environment Clearance issued by MOEFCC for enhanced production capacity of Phosphoric acid plant from 300 MT/PO to 100 MT/PO

Period of submission : Oct'22 to Mar'23

Unit : Coromandel International Limited, Visakhapatnam

Nagaraju

Nagaraju P

Manager-Environment

302040423

SAVE ENVIRONMENT SAVE LIFE



NATURE PROTECTIVE

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Coromandel International Limited, Visakhapatnam

MoEF-EC: COMPLIANCE STATUS OF Environmental Clearance (EC) issued by MoEF for enhanced production capacity of Phosphoric acid plant from 593 MTPD to 798 MTPD

Reference : E.No. 2-112/1/3882206/SA.3 (I) dated 18.03.2007

(For the period from Oct-2022 to March-2023)

A. SPECIFIC CONDITIONS:

S.No.	Specific conditions	Compliance status
1	The gaseous emissions (SO ₂ , NO _x , NH ₃ , Urea dust) particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. Monitoring of HF shall be carried out along with other parameters. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	Monitoring the fluoride emissions and meeting the standard of 4 mg/Nm³ from the stack of phosphoric acid plant. All test reports are being submitted to APPCB. In case of emergency plant will shut immediately. The gaseous emissions are being monitored on continuous basis with in house laboratory. Further, MoEF approved third party analysis is also carried out on monthly basis and the reports are submitted regularly. Complex A, Complex-B & Complex C train were installed with online stack analyzer and the data uploading to APPCB & CPCB websites. SAP-1 & SAP-2 installed with online stack analyzer and connected to CPCB & APPCB websites. Phosphoric acid and rock grinding units were installed with PM Online stack analyzers. The HF analyzer is also installed at Phosphoric acid plant. All the analyzers connected to APPCB & CPCB websites.

Coromandel International Limited, Visakhapatnam

S.No.	Specific conditions	Compliance status
i	Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration is anticipated in consultation with the APFCB and data submitted to the Ministry's Regional Office at Bangalore six monthly and APFCB quarterly along with statistical analysis.	Installed three online monitoring AQGM stations and connected to APFCB server. Ambient air quality is also being monitored through MoEF approved laboratory and AQG data is submitted to MoEFCC & APFCB regularly.
ii	Total water requirement will be met from Municipal Water supply. No effluent will be generated from water-soluble fertilizer plant since entire quantity of water will be recycled in the process. Liquid effluent from cooling tower blow down will be recycled and reused in phosphoric acid / granulation plants and in case of no consumption, it will be sent to ETP. Treated effluent will be disposed off into the sea at a distance of 2.0 Km through a channel.	- No additional water required. Municipal Water supply quantity remains same. - Effluent generated from Water Soluble Fertilizer plant is being recycled. - Cooling Tower blow down water will be reused in the process. - Once through cooling is discharged into sea at a distance of more than 6 Km through a channel. - Effluent Treatment Plant in operation.
iii	Prior clearance under the Coastal Regulation Zone (CRZ) shall be obtained from the State / Central Govt. for the disposal of treated effluent into the Sea.	Coromandel does not discharge any treated effluent directly into the sea. Coromandel has been permitted to discharge its treated effluents from ETP and return mixing water in a common channel provided by the Visakh Port authorities since the plant was established in 1967 (prior to CRZ rules 1981). Coromandel discharge point is approx. 100 km away from the Wagladipada

Coromandel International Limited, Visakhapatnam

S.No.	Specific conditions	Compliance status
		over flow channel. All other industries (HPCL, APCL, IOCL and BPCL) are also discharging into common channel. Hence CRZ clearance is not applicable to the Coromandel International Ltd.
i.	Regular monitoring of ground water by installing Piezometric wells around the guard pond and sludge disposal site shall be periodically monitored and reports submitted to Ministry's Regional Office at Bangalore, CPCB and APPCB.	Ground water monitoring through 5 Piezo wells and 8 bore wells located in and around the guard pond and reports furnishing to APPCB regularly.
ii.	Gypsum produced as a by-product from phosphoric acid plant shall be utilized in cement industries as a retarder as well as soil conditioner for agricultural use. Waste oil shall be sold to the authorized recyclers / processors.	Gypsum is being disposed to various nearby industries, predominantly Cement industries and also for agricultural purposes. Waste oil is being disposed to CPCB approved recyclers.
iii.	The company shall adopt rainwater-harvesting measures to reduce requirement of the fresh water.	Being explored
iv.	Green belt shall be developed in 33 % area and properly maintained to mitigate the effects of fugitive emissions all around the plant as per the Central Pollution Control Board guidelines.	Out of the 425 acres, the reserved land area is 313 (after denaking from VPT) and the green belt is developed in 125 acres area which is more than 33%. Hence Complied
v.	The company shall implement all the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) for fertilizer industries.	Complied.

B. GENERAL CONDITIONS :-

S.No.	General conditions	Compliance status
i	The project authorities must strictly adhere to the stipulations made by the A.P. Pollution Control Board (APPCB) and the State Government.	Agreed.
ii	No further expansion/modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Prior approval will be taken from statutory body/ MOEF.
iii	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management & Handling) Rules, 2003.	Maintaining FORM-3 and FORM-13 for storage and transfer of hazardous waste.
iv	The project proponent shall also comply with all the safeguards recommended in the EIA /EMP Report.	Agreed.
v	The project authorities will set up a separate environmental management cell for effective implementation of all the above stipulations under control of Senior Executive.	Environmental Management Cell is present headed by AGM-EHS reporting directly to unit head. He is supported by Manager - Environment and other staff from quality control & laboratory for carrying out analysis as per environmental management plan.
vi	Adequate funds towards capital cost and recurring expenditure/annum shall be sanctioned and judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government and a time bound implementation schedule for all the conditions stipulated herein shall be submitted. The funds so provided shall	Funds are provided through internal fund allocation systems.

Coromandel International Limited, Visakhapatnam

S. No.	General conditions	Compliance status
	not be diverted for any other purposes.	
vi.	The Regional Office of the Ministry at Bangalore / Central Pollution Control Board / APPCB will monitor the stipulated conditions. A six monthly compliance status report and the monitored data along with statistical interpretation shall be submitted to monitoring agencies regularly.	Half yearly reports being sent to APPCB and regional Office
vii.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the APPCB / Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.mca.gov.in . This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which, one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bangalore.	Advertised in prominent news papers dated - 27.05.2008 in local language and also English, and copies were forwarded to Regional Office, MoEF, Bangalore
ix.	The Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of	The Project was supported with Internal Fund Allocations. All the projects were completed by 2009-10.

Coromandel International Limited, Visakhapatnam

S.No.	General conditions	Compliance status
	concerning the land development work, if any.	
i.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed. Compliance status furnishing regularly to concerned statutory bodies.
ii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.	Agreed.
xii.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Agreed. Consent for Operation and Hazardous waste authorization has been obtained from APPCB. * Maintaining FORM-3 according to HW rules, 2016 *Public liability Insurance Policy valid till 31.03.2024

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TEST REPORT

Test Report No. TMLCN/Env/CH/12/1622

dt: 02.11.2022

Description of Test: Ambient Air quality Monitoring inside the CFI.
Name of the client: Coremandel International Limited, Visakhapatnam
Location of sampling: Stations as per details given
Period of Monitoring: For the Month of OCTOBER-2022

Summary of Ambient Air quality Monitoring Data for the Month of OCTOBER-2022

Parameters		AAQ-1 Station at the Top of Calumet	AAQ-2 Station near DG site	AAQ-3 Station at Gate - 13 (Near Bagging shed)
PM ₁₀	Minimum	23	24	24
	Maximum	44	48	42
	Std. Dev.	44	48	42
	Average	25	28	33
PM _{2.5}	Minimum	41	55	50
	Maximum	84	85	88
	Std. Dev.	64	83	38
	Average	66	72	67
SO ₂	Minimum	10.8	13.8	7.0
	Maximum	25.4	31.5	22.2
	Std. Dev.	10.1	1.7	12.3
	Average	25.5	21.2	23.8
NO ₂	Minimum	12.7	14.8	16.2
	Maximum	34.3	31.8	26.0
	Std. Dev.	14.3	22.0	29.0
	Average	17.9	22.0	14.0
NH ₃	Minimum	0.01mg/M ³	0.01mg/M ³	0.01 mg/M ³
	Maximum	0.01mg/M ³	0.01mg/M ³	0.01mg/M ³
	Std. Dev.	0.01mg/M ³	0.01mg/M ³	0.01mg/M ³
	Average	0.01mg/M ³	0.01mg/M ³	0.01mg/M ³

All values are expressed in $\mu\text{g}/\text{m}^3$
except Ammonia

For TEAM Labs and Consultants

Labs and Consultants

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TEST REPORT

dt. 01.12.2022

Test Report No. TLC/VEP/CHL/12/1422

Description of Test: Ambient Air quality Monitoring inside the CFI.
 Name of the client: Oceanworld International Limited, Visakhapatnam.
 Location of sampling: Seaside as per details given.
 Period of Monitoring: For the Month of NOVEMBER-2022

Summary of Ambient Air quality Monitoring Data for the Month of NOVEMBER-2022

Parameters		A AQ-1 Station at the Top of Cofortek	A AQ-2 Station near DG shed	A AQ-3 Station at Gate - 03 (Near Sagarwaj gate)
PM _{2.5}	Maximum	22	33	26
	Minimum	02	08	02
	Average	02	05	07
	Standard	30	40	37
PM ₁₀	Maximum	68	64	62
	Minimum	8	18	12
	Average	18	08	12
	Standard	71	73	72
SO ₂	Maximum	14.5	18.2	10.5
	Minimum	04.3	05.7	14.0
	Average	06.6	06.5	12.5
	Standard	16.5	19.7	14.0
NO ₂	Maximum	15.5	19.2	12.8
	Minimum	02.5	01.2	18.0
	Average	02.5	01.2	15.2
	Standard	17.5	23.5	15.2
NH ₃	Maximum	0.12mg/M ³	0.02mg/M ³	0.01 mg/M ³
	Minimum	0.02mg/M ³	0.06mg/M ³	0.02mg/M ³
	Average	0.02mg/M ³	0.02mg/M ³	0.02mg/M ³
	Standard	0.02mg/M ³	0.02mg/M ³	0.02mg/M ³

All values are expressed in $\mu\text{g}/\text{m}^3$ except Ammonia

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLO/NTL/CEL/12/1223

dt. 02.04.2023

Description of Test: Ambient Air quality Monitoring inside the CPE
 Name of the client: Coromandel International Limited, Vellore
 Location of sampling: Stations as per details given
 Period of Monitoring: For the Month of DECEMBER-2022

Summary of Ambient Air quality Monitoring Data for the Month of DECEMBER-2022

Parameters		AAQ-1 Station at 5m Top of Cylindrical	AAQ-2 Station near DO well	AAQ-3 Station at Gate -13 (Near Staging Area)
PM ₁₀	Minimum	34	27	23
	Maximum	42	45	44
	Average	42	45	40
	Std. Dev.	38	41	38
PM _{2.5}	Minimum	32	29	26
	Maximum	40	34	30
	Average	39	36	30
	Std. Dev.	22	24	21
SO ₂	Minimum	16.2	21.2	12.8
	Maximum	22.3	22.4	15.2
	Average	18.2	24.4	14.2
	Std. Dev.	22.3	26.3	18.2
NO ₂	Minimum	16.6	19.2	14.2
	Maximum	22.3	25.9	19.9
	Average	22.3	26.9	19.9
	Std. Dev.	22.4	25.2	15.4
NH ₃	Minimum	0.01mg/m ³	0.02mg/m ³	0.01mg/m ³
	Maximum	0.01mg/m ³	0.04mg/m ³	0.01mg/m ³
	Average	0.01mg/m ³	0.04mg/m ³	0.01mg/m ³
	Std. Dev.	0.01mg/m ³	0.01mg/m ³	0.01mg/m ³

All values are expressed in $\mu\text{g}/\text{m}^3$
 except Ammonia

For TEAM Labs and Consultants

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TEST REPORT

Test Report No. TLLC/V/Env/CH/12/0123

dt. 02.02.2023

Description of Test: Ambient Air quality Monitoring inside the CFI.
 Name of the client: Camanahel International Limited, Visakhapatnam
 Location of sampling: Site/area as per details given
 Period of Monitoring: For the Month of JANUARY-2023

Summary of Ambient Air quality Monitoring Data for the Month of JANUARY-2023

Parameters		AAQ-1 Station at the Top of Chimney	AAQ-2 Station near DG sets	AAQ-3 Station in Gate-45 Other Sampling point
PM ₁₀	Maximum	38	38	34
	Minimum	45	45	40
	Average	45	45	42
	Std. Dev.	38	41	36
PM _{2.5}	Maximum	37	72	64
	Minimum	8	34	36
	Average	45	36	36
	Std. Dev.	72	75	72
SO ₂	Maximum	15.8	17.8	17.7
	Minimum	21.8	21.8	21.8
	Average	21.8	21.8	21.8
	Std. Dev.	21.8	21.8	21.8
NO _x	Maximum	16.8	16.8	16.7
	Minimum	21.8	21.8	21.8
	Average	21.8	21.8	21.8
	Std. Dev.	21.8	21.8	21.8
NH ₃	Maximum	0.12mg/M ³	0.12mg/M ³	0.09mg/M ³
	Minimum	0.12mg/M ³	0.12mg/M ³	0.12mg/M ³
	Average	0.12mg/M ³	0.12mg/M ³	0.12mg/M ³
	Std. Dev.	0.12mg/M ³	0.12mg/M ³	0.12mg/M ³

All values are expressed in µg/m³
 except Ammonia

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No.TLCN/Env/CIL/12/0223

01.02.2023

Description of Test: Ambient Air quality Monitoring inside the CFI.
 Name of the client: Commandul International Limited, Visakhapatnam
 Location of sampling: Stations as per details given
 Period of Monitoring: For the Month of FEBRUARY-2023

Summary of Ambient Air quality Monitoring Data for the Month of FEBRUARY-2023

Parameters		AAQ-I Station at (On Top of Calcutta)	AAQ-I Station (near BQ area)	AAQ-II Station at Gate -II (Near Sampling plant)
PM ₁₀	Maximum	32	25	36
	Minimum	16	16	19
	95%ile	44	44	47
	Average	32	18	32
PM _{2.5}	Maximum	64	48	63
	Minimum	76	64	64
	95%ile	76	61	84
	Average	61	76	74
SO ₂	Maximum	11.0	11.2	11.6
	Minimum	10.0	10.2	10.6
	Average	10.0	10.6	11.2
	95%ile	10.8	10.8	11.6
NO ₂	Maximum	18.0	18.1	18.7
	Minimum	12.7	15.1	16.2
	95%ile	12.7	16.1	18.2
	Average	15.2	14.1	16.5
NH ₃	Maximum	0.07mg/M ³	0.07mg/M ³	0.07 mg/M ³
	Minimum	0.07mg/M ³	0.07mg/M ³	0.07mg/M ³
	95%ile	0.07mg/M ³	0.07mg/M ³	0.07mg/M ³
	Average	0.08mg/M ³	0.08mg/M ³	0.07mg/M ³

All values are expressed in $\mu\text{g}/\text{m}^3$
 except Ammonia

For TEAM Labs and Consultants



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TEST REPORT

Test Report No.TLOV/Ea/CH/8490323

41.01.04.2023

Description of Test: Ambient Air quality Monitoring inside the CPE
Name of the client: Curremand International Limited, Vengal Rao Nagar
Location of sampling: Stations as per details given
Period of Monitoring: For the Month of MARCH-2023

Summary of Ambient Air quality Monitoring Data for the Month of MARCH-2023

Parameter		AAQ-1 Station at EPR Top of Cyclone	AAQ-2 Station near BG 4th	AAQ-3 Station at Gate -32 (Near Bagging plant)
PM2.5	Maximum	38	25	22
	Minimum	36	41	42
	99%ile	38	41	41
	Average	39	39	37
PM10	Maximum	55	59	60
	Minimum	52	59	58
	99%ile	52	59	58
	Average	55	55	55
SO ₂	Maximum	8.2	8.0	8.5
	Minimum	16.2	16.1	12.4
	99%ile	16.2	16.1	12.4
	Average	8.2	8.0	8.5
NO ₂	Maximum	11.6	11.3	12.0
	Minimum	11.3	11.4	11.3
	99%ile	11.3	11.4	11.3
	Average	11.6	11.4	11.4
NH ₃	Maximum	0.01mg/m ³	0.01mg/m ³	0.01mg/m ³
	Minimum	0.01mg/m ³	0.01mg/m ³	0.01mg/m ³
	99%ile	0.01mg/m ³	0.01mg/m ³	0.01mg/m ³
	Average	0.01mg/m ³	0.01mg/m ³	0.01mg/m ³

All values are expressed in µg/m³
except Ammonia

For TEAM Lab and Consultants



Labo and Consultants

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Test Report No. TEAM/Env/CFL/14/1022

41.02.21.2022

Description of Test: **Piez wells analysis**Name of the client: **Crownmud International Limited, Virudhachapuram**Location of sampling: **Stations as per details given**

Date of Sample collection : As per details given

No	Date	Location of Piezo well	F - sigl.
1	26.10.2022	CFL - colony	0.3
2	*	Near 4 OF Gate	0.4
3	*	Near 7 th gate	0.5
4	*	S.T.Nalla	0.9
		ISO8584 Permissible limit	1.5
	Protocol		BM-000 P-D

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Test Report No. TLECV/Kar/CPL/10/1122

dt. 02.11.2022

Description of Test: Polysulfide analysis

Name of the client: Commandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: As per details given

No	Date	Location of Polysulfide	P- mg/L
1	26.11.2022	CPL - inflow	0.25
2	"	Near 4 th OP Gate	0.35
3	"	Near 7 th gate	0.5
4	"	B.T. Naidu	0.8
		1500000 Perchloric acid	1.5
	Provisional		100 400 P- D

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLCV/Kas/CFL/14/1222

09.02.2023

Description of Test: Pesticide analysis

Name of the client: Carrommid International Limited, Viskhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No.	Date	Location of Pesticide well	P- mg/L
1	26.11.2022	CFL - colap	0.3
2	-	Neard OP Gate	0.3
3	-	Near 7 th gate	0.3
4	-	B.T. Nalla well	0.3
		IN10204 Permethrin Insect	1.3
	Protocol		100 mg/L P. D

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TMLCV/Env/CFL/06/0123

dt. 01.01.2023

Description of Test: Pesticide analysis

Name of the client: Commandat International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: As per details given

No	Date	Location of Pesticide	P- mg/L
1	19.01.2023	CFL - colony	0.4
2	"	Near 4 OT Gate	0.3
3	"	Near 7 th gate	0.4
4	"	B.T. Fields	1.8
		1510500 Permissible limit	1.5
	Prepared		151-050 P-0

For TEAM Labs and Consultants



Labs and Consultants

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ISIRI Accredited Laboratory**TEST REPORT**

Test Report No. TLC/V/Env/CPL/06/0223

06.02.2023

Description of Test: Petco wells analysis

Name of the client: Commandat International Limited, Visakhapatnam

Location of sampling: Station as per details given

Date of Sample collection : As per details given

No	Date	Location of Petco well	F- mg/L
1	23.02.2023	CPL - colony	0.3
2	"	Near 4 th OP Gate	0.6
3	"	Near 7 th gate	0.3
4	"	B.T/Nalla junction	0.8
		ISI6596 Permissible limit	1.5
	Protocol		SU 400 F-D

For TEAM Labs and Consultants



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Test Report No./TLCV/Team/CFL/180323

dtd.01.04.2023

Description of Test: Pesticide analysis

Name of the client: Command International Limited, Vijaydurgam

Location of sampling: Station as per details given

Date of Sample collection : As per details given

No	Date	Location of Pesticide	P. mg/L
1	21.01.2023	CFL - colony	0.3
2	"	Near OP Gate	0.5
3	"	Near 7 th gate	0.4
4	"	CRC	0.8
		15/1000 Permissible limit	1.5
	Prepared		for 400 T- D

For TEAM Lab and Consultants



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TEST REPORT

Test Report No. TEL/001/rev/CH/11/1022

4.12.21.2022

Description of Test:

Source Emission Monitoring inside the CHL

Name of the client:

Commandal International Limited, Visakhapatnam

Location of sampling: stacks attached to respective plants as per details given

WINDUCT/STACK EMISSION MONITORING FOR THE MONTH OF OCTOBER, 2022

S.No	Stack attached to	Flow rate NM ³ /hr	parameters	Conc. ug/NM ³	APPCB Standard Limit
1	Complex A	10942	Particulate matter	32	45 ug/NM ³
			Acrolein	25	100.4 ug/NM ³
			Formaldehyde	0.2	44 ug/NM ³
2	Complex B	18099	Particulate matter	26	45 ug/NM ³
			Acrolein	22	100.4 ug/NM ³
			Formaldehyde	0.3	44 ug/NM ³
3	Complex C	18016	Particulate matter	19	45 ug/NM ³
			Acrolein	22	100.4 ug/NM ³
			Formaldehyde	0.5	44 ug/NM ³
4	Sulphuric acid plant I	97182	Sulphur dioxide (H ₂ SO ₄ /NM ³)	6.24 Kg/NM ³	1 Kg/Hr
			Sulphur trioxide	34	6.25 Kg/NM ³
			Acid mist	68	25 ug/NM ³
5	Sulphuric acid plant II	24719	Sulphur dioxide (H ₂ SO ₄ /NM ³)	8.946 Kg/NM ³ (25 ug/NM ³)	6.05 Kg/NM ³
			Sulphur trioxide	30	6.25 Kg/NM ³
			Acid mist	68	25 ug/NM ³
6	Phosphoric acid plant I	94992	Particulate matter	31	50 ug/NM ³
			Formaldehyde	0.8	20 ug/NM ³
			Total Phosphate	26	20 ug/NM ³
7	Rock grinding unit (RM)	5782	Particulate matter	26	50 ug/NM ³
			Total Phosphate	2.6	20 ug/NM ³
			Particulate matter	25	50 ug/NM ³
8	Wheat flour	12085	Particulate matter	27	50 ug/NM ³
			Total Phosphate	4.3	20 ug/NM ³
			Particulate matter	28	50 ug/NM ³
9	Rock grinding unit (New)	11721	Particulate matter	4.7	20 ug/NM ³
			Total Phosphate	4.7	20 ug/NM ³

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

01.02.2022

Test Report No: TLA/VEE/CL/01/022

Source: Routine Monitoring (under the CM)
Description of Test: Cemented Interstitial Limited, Muskhigumam

Name of the client: Cemented Interstitial Limited, Muskhigumam

Location of sampling: stacks attached in respective place as per details given

SOURCE STACK EMISSION MONITORING FOR THE MONTH OF NOVEMBER 2022

S.No	Stack attached to	Flow rate Nm ³ /hr	parameters	Conc. mg/Nm ³	AFFCB standard Limit
1	Cuplex A	17282	Particulate matter	25	45 mg/Nm ³
			Acidic	95	165.8 mg/Nm ³
			Fluoride	1.1	1.8 mg/Nm ³
			Mercuric	20	45 mg/Nm ³
2	Cuplex B	16151	Particulate matter	25	45 mg/Nm ³
			Acidic	75	165.8 mg/Nm ³
			Fluoride	1.9	1.8 mg/Nm ³
			Mercuric	19	45 mg/Nm ³
3	Cuplex C	10990	Particulate matter	25	45 mg/Nm ³
			Acidic	50	165.8 mg/Nm ³
			Fluoride	1.8	1.8 mg/Nm ³
			Mercuric	19	45 mg/Nm ³
4	Sulphuric acid plant-1	9025	Sulphur dioxide (11.9mg/Nm ³)	11.9mg/Nm ³	1.8 mg/Nm ³
			Sulphur trioxide (11.9mg/Nm ³)	11.9	1.8 mg/Nm ³
			acid mist	78	20 mg/Nm ³
			Mercuric chloride (12.9mg/Nm ³)	12.9mg/Nm ³	6.45 mg/Nm ³
5	Sulphuric acid plant-2	22802	Sulphur dioxide (12.9mg/Nm ³)	12.9	1.8 mg/Nm ³
			Sulphur trioxide (12.9mg/Nm ³)	12.9	1.8 mg/Nm ³
			acid mist	78	20 mg/Nm ³
			Mercuric chloride (12.9mg/Nm ³)	12.9	6.45 mg/Nm ³
6	Phosphoric acid plant-1	10800	Particulate matter	25	45 mg/Nm ³
			Fluoride	4.2	20 mg/Nm ³
			Mercuric	24	20 mg/Nm ³
			Total Phosphate	2.4	20 mg/Nm ³
7	Rock grinding unit (RM)	10848	Particulate matter	25	45 mg/Nm ³
			Total Phosphate	2.4	20 mg/Nm ³
			Fluoride	27	112 mg/Nm ³
			Mercuric	27	112 mg/Nm ³
8	Wheel loader	18075	Particulate matter	25	45 mg/Nm ³
			Fluoride	4.2	20 mg/Nm ³
			Mercuric	24	20 mg/Nm ³
			Total Phosphate	2.4	20 mg/Nm ³
9	Phosphoric acid plant-2	26704	Particulate matter	25	45 mg/Nm ³
			Fluoride	4.2	20 mg/Nm ³
			Mercuric	24	20 mg/Nm ³
			Total Phosphate	2.4	20 mg/Nm ³
10	Rock grinding unit (New)	11511	Particulate matter	25	45 mg/Nm ³
			Fluoride	4.2	20 mg/Nm ³
			Mercuric	24	20 mg/Nm ³
			Total Phosphate	2.4	20 mg/Nm ³

For TEAM Lab and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TCM/001/01-128

06.02.2023

Description of Test:

Source Emission Monitoring Inside the CFI.

Name of the client:

Carnaud International Limited, Visakhapatnam

Location of sampling: stacks attached to respective plants as per details given

SOURCE/STACK EMISSION MONITORING FOR THE MONTH OF DECEMBER, 2022

S/N	Stack/attached to	Flow rate m ³ /min	parameter	Conc. mg/NM ³	GTED Standard Limit
1	Complex A	1700	Particulate matter	30	30 mg/NM ³
			Sulphur Dioxide	33	33.3 mg/NM ³
			Fluoride	33	33 mg/NM ³
2	Complex B	1700	Particulate matter	30	30 mg/NM ³
			Sulphur Dioxide	33	33.3 mg/NM ³
			Fluoride	33	33 mg/NM ³
3	Complex C	2800	Particulate matter	30	30 mg/NM ³
			Sulphur Dioxide	33	33.3 mg/NM ³
			Fluoride	33	33 mg/NM ³
4	Stacks with plant I	1000	Sulphur dioxide acid gas	4200mg/NM ³ (100mg/NM ³)	1 kg/NM ³
			Sulphur trioxide	30	3.0 kg/NM ³
			acid gas	30	30 mg/NM ³
5	Stacks with plant II	1000	Sulphur dioxide acid gas	4400mg/NM ³ (100mg/NM ³)	3.0 kg/NM ³
			Sulphur trioxide	30	3.0 kg/NM ³
			acid gas	30	30 mg/NM ³
6	Phosphate unit plant I	1000	Particulate matter	30	30 mg/NM ³
			Fluoride	33	33 mg/NM ³
7	Rock grinding unit (I&II)	400	Particulate matter	30	30 mg/NM ³
			Total Dusts in air	33	33 mg/NM ³
8	Plant Boiler	900	Particulate matter	30	30 mg/NM ³
			Total Dusts in air	33	33 mg/NM ³
9	Phosphate unit plant II	2000	Particulate matter	30	30 mg/NM ³
			Total Dusts in air	33	33 mg/NM ³
10	Rock grinding unit (I&II)	400	Particulate matter	30	30 mg/NM ³
			Total Dusts in air	33	33 mg/NM ³

For TEAM Labs and Consultants

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TEST REPORT

Test Report No. TEL/CN/Env/CBL/11/0123

06.05.2023

Description of Test:

Source: Exhausts Mixture from inside the CPL

Name of the client:

Carvedo International Limited, Visakhapatnam

Location of sampling: stacks attached to respective plants as per details given

SOURCE/STACK EMISSION MONITORING FOR THE MONTH OF JANUARY 2023

S.No	Stack attached to	Flow rate Nm ³ /hr	parameters	Conc. mg/Nm ³	APPCB Standard Limit
1	Complex A	10418	Particulate matter	27	45 mg/Nm ³
			Sulphur dioxide	08	105.0 mg/Nm ³
			Fluoride	1.0	6.0 mg/Nm ³
2	Complex B	10005	Particulate matter	20	45 mg/Nm ³
			Sulphur dioxide	119	105.0 mg/Nm ³
			Fluoride	0.9	6.0 mg/Nm ³
3	Complex C	17811	Particulate matter	15	45 mg/Nm ³
			Sulphur dioxide	180	105.0 mg/Nm ³
			Fluoride	0.2	6.0 mg/Nm ³
4	Sulphuric acid plant-I	97473	Sulphur dioxide	6.146kg/M ³ (225mg/Nm ³)	1 kg/M ³
			Sulphur trioxide	NA	6.35 kg/M ³
			Acid mist	NA	10 mg/Nm ³
			Total Sulphur	6.146kg/M ³ (225mg/Nm ³)	6.65 kg/M ³
5	Sulphuric acid plant-II	33350	Sulphur dioxide	NA	6.35 kg/M ³
			Sulphur trioxide	NA	10 mg/Nm ³
			Acid mist	NA	10 mg/Nm ³
			Total Sulphur	NA	6.65 kg/M ³
6	Phosphate acid plant-I	140788	Particulate matter	20	30 mg/Nm ³
			Fluoride	1.4	20 mg/Nm ³
7	Rock grinding unit (NA)	18811	Particulate matter	18	30 mg/Nm ³
			Total Fluoride	1.0	20 mg/Nm ³
8	Wheat Boiler	9822	Particulate matter	24	30 mg/Nm ³
9	Phosphate acid plant-II	18814	Particulate matter	22	30 mg/Nm ³
			Total Fluoride	1.0	20 mg/Nm ³
10	Rock grinding unit (flow)	1546	Particulate matter	22	30 mg/Nm ³
			Total Fluoride	1.0	20 mg/Nm ³

For TEAM Labs and Consultants :



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TEST REPORT

Test Report No. TLM/Env/CIL/11/0223

01.02.2023

Description of Test:

Source Emission Monitoring inside the CPL

Name of the client:

Carnaud International Limited, Visakhapatnam

Location of sampling: stacks attached to respective plants as per details given

SOURCE STACK EMISSION MONITORING FOR THE MONTH OF FEBRUARY 2023

S.No.	Stack attached to	Flow rate Nm ³ /hr	parameters	Conc. mg/Nm ³	APPC Standard Limit
1	Complex A	80000	Particulate matter	35	45 mg/Nm ³
			Ammonia	45	100 mg/Nm ³
			Fluoride	0.3	0.4 mg/Nm ³
2	Complex B	21000	Particulate matter	35	45 mg/Nm ³
			Ammonia	45	100 mg/Nm ³
			Fluoride	0.3	0.4 mg/Nm ³
3	Complex C	18000	Particulate matter	35	45 mg/Nm ³
			Ammonia	45	100 mg/Nm ³
			Fluoride	0.3	0.4 mg/Nm ³
4	Sulphuric acid plant I	10000	Sulphur dioxide	0.0004 g/m ³ (20mg/Nm ³)	1 mg/Nm ³
			Sulphur trioxide	10	0.10 kg/Nm ³
			Sulphur oxide	10	0.10 kg/Nm ³
			Sulphur dioxide	10	0.10 kg/Nm ³
			Sulphur trioxide	10	0.10 kg/Nm ³
5	Sulphuric acid plant II	10000	Sulphur dioxide	0.0004 g/m ³ (20mg/Nm ³)	1 mg/Nm ³
			Sulphur trioxide	10	0.10 kg/Nm ³
			Sulphur oxide	10	0.10 kg/Nm ³
6	Phosphate acid plant I	15000	Particulate matter	10	20 mg/Nm ³
			Fluoride	0.3	0.4 mg/Nm ³
7	Acid grinding unit (I)	1500	Particulate matter	20	45 mg/Nm ³
			Total Fluoride	0.3	0.4 mg/Nm ³
8	Waste boiler	4200	Particulate matter	35	45 mg/Nm ³
9	Phosphate acid plant II	20000	Particulate matter	20	20 mg/Nm ³
			Total Fluoride	0.3	0.4 mg/Nm ³
10	Acid grinding unit (II)	4000	Particulate matter	35	45 mg/Nm ³
			Total Fluoride	0.3	0.4 mg/Nm ³

For TEAM Labs and Consultants



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TEST REPORT

Test Report No.TLC/V/Env/CIL/15/1822

04.02.22.2022

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Commercial International Limited, Visakhapatnam

Location of sampling: Suddam as per details given

Date of Sample collection: 21.01.2022

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia & Nitrogen mg/l
1	Kamala Devi colony- No.1	7.7	Nil	0.2	Nil
2	Kamala Devi colony- No.2	7.8	Nil	0.2	Nil
3	Induravarampalem-1	7.7	Nil	0.2	Nil
4	Induravarampalem-2	7.5	Nil	0.3	Nil
5	Mulagada No.1	7.6	Nil	0.2	Nil
6	Mulagada No.2	7.5	Nil	0.3	Nil
7	Mulagada No.3	7.6	Nil	0.3	Nil
8	Kotipasa Bala dibba	7.7	Nil	0.2	Nil
	Provided	ISIRI Part II-1903	APHA1000	ISO 4500 F- D	APHA2000

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Env/CIL/15/1122

dt.02.11.2022

Description of Test: Surrounding village wells - Ground water analysis

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 26.11.2022

NO	Location of well	pH	PO4 mg/l	P- mg/l	Ammonia & Nitrogen mg/l
1	Kamatadevi colony- No.1	7.6	Nil	0.3	Nil
2	Kamatadevi colony- No.2	7.3	Nil	0.2	Nil
3	Vaduvuvasipalem-1	7.5	Nil	0.2	Nil
4	Vaduvuvasipalem-2	7.6	Nil	0.2	Nil
5	Malaguda No.1	7.6	Nil	0.2	Nil
6	Malaguda No.2	7.7	Nil	0.3	Nil
7	Malaguda No.3	7.4	Nil	0.2	Nil
8	Kodiparada ditha	7.6	Nil	0.2	Nil
	Overall	IS:2825 Part II-080	ATTRA-0800	SM 4900 P- D	APHA-0800

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Env/CCL/15/1222

08.02.2022

Description of Test: Surrounding village wells Ground water analysis

Name of the client: Corasmed International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 26.12.2021

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia & Nitrate mg/l
1	Kamalahalli colony- No.1	7.5	Nd	0.2	Nd
2	Kamalahalli colony- No.2	7.3	Nd	0.3	Nd
3	Yedurangachem-1	7.4	Nd	0.2	Nd
4	Yedurangachem-2	7.4	Nd	0.3	Nd
5	Malaguda No.1	7.6	Nd	0.2	Nd
6	Malaguda No.2	7.5	Nd	0.3	Nd
7	Malaguda No.3	7.4	Nd	0.3	Nd
8	Kadigumtala 4th Sta (Pond)	7.5	Nd	0.2	Nd
		EC/25 Part 15,000	AP/04/0000	CU 400 P- B	AP/04/0000

For TEAM Labs and Consultants

Labs and Consultants

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TEST REPORT

Test Report No. TLC/V/Eaw/CIL/15W123

01.02.2023

Description of Test: Surrounding village with Ground water analysis

Name of the client: Gramamandali Interstructural Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 19.01.2023

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia 1N Nitrogen mg/l
1	Kamalahalli colony- No.1	7.6	Nil	0.2	Nil
2	Kamalahalli colony- No.2	7.3	Nil	0.2	Nil
3	Vidharanipalem-1	7.7	Nil	0.2	Nil
4	Vidharanipalem-2	7.5	Nil	0.2	Nil
5	Mallayada No.1	7.6	Nil	0.2	Nil
6	Mallayada No.2	7.7	Nil	0.2	Nil
7	Mallayada No.3	7.4	Nil	0.2	Nil
8	Kochimandali 40th	7.5	Nil	0.2	Nil
	Overall	01.02.2023 Part 15-090	APHA/0000	SM 400 P 0	APHA/0000

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No.TLC/V/Ea/CIL/15/0223

@02.03.2023

Description of Test: Saravali nag village wells Ground water analysis

Name of the client: Commercial International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of sample collection: 27.02.2023

NO	Location of well	pH	PO4 mg/l	P- mg/l	Ammonia (Nitrogen) mg/l
1	Kamalahalli colony- No.1	7.5	Nil	0.2	Nil
2	Kamalahalli colony- No.2	7.6	Nil	0.2	Nil
3	Yeduru-anigubolu-1	7.5	Nil	0.3	Nil
4	Yeduru-anigubolu-2	7.7	Nil	0.3	Nil
5	Malaganu No.1	7.6	Nil	0.3	Nil
6	Malaganu No.2	7.5	Nil	0.2	Nil
7	Malaganu No.3	7.5	Nil	0.3	Nil
8	Kodipandulu dham	7.3	Nil	0.3	Nil
	Present	0.0005 Part 10-1000	APHA-10000	500 4000 P- B	APHA-4000C

For TEAM Labs and Consultants



TEST REPORT

Test Report No.TLCV/Env/CIL/09/022

01.04.2023

Description of Test: Surrounding village wells Ground water analysis

Name of the client: Caremasid International Limited, Vadkhespatam

Location of sampling: Stations as per details given

Date of Sample collection: 14.03.2023

NO	Location of well	pH	PO4 mg/l	F ⁻ mg/l	Ammonia (Nitrogen) mg/l
1	Kamalahari colony- No.1	7.6	Nd	0.3	Nd
2	Kamalahari colony- No.2	7.7	Nd	0.2	Nd
3	Yedhuvani-patam-1	7.7	Nd	0.3	Nd
4	Yedhuvani-patam-2	7.7	Nd	0.3	Nd
5	Malagada No.1	7.8	Nd	0.2	Nd
6	Malagada No.2	7.5	Nd	0.2	Nd
7	Malagada No.3	7.5	Nd	0.3	Nd
8	Kodipondola dithu	7.6	Nd	0.2	Nd
	Prepared	10.02.23 For 11.09.02	A/PS/G/09/01	SD 0909 B 0	A/PS/G/09/01C

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Env/CFL/20/1022

dt. 02.11.2022

Description of Test: Ambient Air Quality Monitoring outside the CFL
Name of the client: Coromandel International Limited, Visakhapatnam
Location of sampling: Near Warf
Date of Collection: As per details Given

Analysis Report for the Month of OCTOBER-2022

Date of monitoring	Time	PM ₁₀ Limit 08 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 09 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 10 $\mu\text{g}/\text{m}^3$	NO _x Limit 50 $\mu\text{g}/\text{m}^3$
27.10.2022 To 28.10.2022	08.00 to 09.30 hrs	42	79	15.5	16.6

All values are given in $\mu\text{g}/\text{m}^3$

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLA/VE/Env/CPL/200122

01.02.2022

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Corvusindia International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of NOVEMBER-2021

Date of monitoring	Time	PM _{2.5} Limit 60 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
28.11.2021 To 29.11.2021	09.00 hrs To 09.00 hrs	40	87	14.1	18.9

All values are given in $\mu\text{g}/\text{m}^3$

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLC/AN/001/122

06.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Carwoodel International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of DECEMBER-2022

Date of monitoring	Time	PM ₁₀ Limit 60 $120 \mu\text{g}/\text{m}^3$	PM _{2.5} Limit 100 $120 \mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $120 \mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $120 \mu\text{g}/\text{m}^3$
11.12.2022 To 01.01.2023	08.00 to 09.00 hrs	45	92	16.6	19.8

All values are given in $\mu\text{g}/\text{m}^3$

For TEAM Labs and Consultants

Labs and Consultants

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Test Report No. TLC/V/Kav/CPL/28/R123

dt. 01.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CPL.

Name of the client: Cervusand International Limited, Voshkhaspuram

Location of sampling: Near Warf

Date of Collection: As per details Client

Authentic Report for the Month of JANUARY-2023

Date of monitoring	Time	PM_{10} Limit 500 $\mu g/m^3$	$PM_{2.5}$ Limit 100 $\mu g/m^3$	SO_2 Limit 50 $\mu g/m^3$	NO_2 Limit 50 $\mu g/m^3$
25.01.2023 To 29.01.2023	09.00 to 09.00 hrs	48	78	14.8	18.5

All values are given in $\mu g/m^3$

For TEAM Labs and Consultants



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TEST REPORTTest Report No. **TLCV/Env/CFL/069223****06.02.2023**

Description of Test: Ambient Air Quality Monitoring inside the CFL

Name of the client: Commandel International Limited, Vokkaligam

Location of sampling: Near Wall

Date of Collection: As per details Given

Analysis Request for the Month of FEBRUARY 2023

Date of monitoring	Time	PM ₁₀ Limit 60 $\mu\text{g}/\text{m}^3$	PM _{2.5} Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
18.02.2023 To 19.02.2023	09.00 to 09.00 hrs	38	88	14.2	21.5

All values are given in $\mu\text{g}/\text{m}^3$

For TEAM Labs and Consultants



Labs and Consultants

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Test Report No. TLC/V/Env/CFL/200323

dt: 01.04.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Cosmoval International Limited, Visakhapatnam

Location of sampling: Near Ward

Date of Collection: As per details Given

Analysis Report for the Month of MARCH-2023:

Date of monitoring	Time	$PM_{2.5}$ Limit 60 $\mu g/m^3$	PM_{10} Limit 100 $\mu g/m^3$	SO_2 Limit 80 $\mu g/m^3$	NO_2 Limit 80 $\mu g/m^3$
25.03.2023 To 26.03.2023	09.00 to 09.00 hrs	34	77	13.2	18.8

All values are given in $\mu g/m^3$

For TEAM Labs and Consultants



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Test Report No. TLC/V/Env/CIL/03/2022

01.02.2022

Description of Test: Ambient Air Quality Monitoring outside the CIL

Name of the Client: Carumandul International Limited, Visakhapatnam

Location of sampling: Malaguda

Date of Collection: As per details given

Analysis Report for the Month of OCTOBER-2021

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
03.10.2021	14	48	7.5	9.8
06.10.2021	16	42	7.3	9.6
11.10.2021	18	45	8.2	11.2
15.10.2021	24	55	9.5	13.5
17.10.2021	26	58	9.2	10.8
19.10.2021	30	60	11.8	12.2
25.10.2021	36	60	18.5	18.3
Protocol	Current method: CPCB manual	ISO 15181 PART- 23 : 2006	ISO 15181 PART- 1 : 2001	ISO 15181 PART- 6 : 2004

All values are given in $\mu\text{g}/\text{m}^3$

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TEST REPORT

Test Report No. TLCOV/Env/CIL/14/1022

04.05.2022

Description of Test: Ambient Air Quality Monitoring outside the CFI.
 Name of the client: Coromandel International Limited, Visakhapatnam
 Location of sampling: Gollapallam
 Date of Collection: As per details given

Analysis Report for the Month of OCTOBER-2022

Date of monitoring	PM _{2.5} Limit 60 µg/m ³	PM ₁₀ Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO _x Limit 80 µg/m ³
03.10.2022	28	45	8.5	16.6
06.10.2022	15	40	7.8	9.5
11.10.2022	18	42	8.2	10.9
13.10.2022	22	50	9.2	11.5
17.10.2022	24	52	9.5	11.2
19.10.2022	25	55	9.8	11.4
25.10.2022	30	60	17.5	16.8
Prevalent	Good weather, CPCB model	ISIRI PART 22-2008	ISIRI PART 3-2008	ISIRI PART 4-2008

For TEAM Labs and Consultants

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TEST REPORT

01.02.2022

Test Report No. TLCN/KovCH/13/0122

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coremandil International Limited, Vandalapet

Location of sampling: Mysore

Date of Collection: As per details given

Analysis Report for the Month of NOVEMBER-2021

Date of monitoring	PM2.5 Limit 50 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
03.11.2021	20	40	8.0	10.6
05.11.2021	24	48	9.0	11.5
07.11.2021	20	42	8.8	12.5
09.11.2021	26	54	10.2	15.5
14.11.2021	28	58	9.8	12.7
16.11.2021	31	62	10.8	14.7
22.11.2021	30	56	10.0	13.5
Protocol	Gravimetric CPC method	IS 182 PART-2 2006	IS 182 PART-1 2006	IS 182 PART-3 2006

All values are given in $\mu\text{g}/\text{m}^3$

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLA/C/V/Env/CIL/14/1121

01.03.2022

Description of Test: Ambient Air Quality Monitoring outside the CFI,
Name of the client: Coromandel International Limited, Visakhapatnam
Location of sampling: Gubila pulam
Date of Collection: As per details given

Analysis Report for the Month of NOVEMBER-2021

Date of monitoring	PM2.5 Limit 50 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
03.11.2021	32	48	9.0	11.5
05.11.2021	24	51	9.8	10.8
07.11.2021	25	54	9.2	12.0
09.11.2021	28	44	8.5	10.2
14.11.2021	28	58	10.2	14.7
18.11.2021	27	56	10.4	15.5
22.11.2021	31	60	9.8	13.5
Protocol	Gravimetric, CPCB 1998	IMP10 PART- 3, 2006	IMP10 PART- 2, 2001	IMP10 PART- 1, 2004

For TEAM Labo and Consultants



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Test Report No. TLO/Ven/CBL/141222

dt. 01.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Calicutapalem

Date of Collection: As per details given

Analysis Report for the Month of DECEMBER-2022

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
05.12.2022	28	45	9.9	10.8
08.12.2022	25	46	9.8	11.5
13.12.2022	27	54	9.8	12.4
16.12.2022	28	55	9.1	11.7
19.12.2022	30	58	10.7	13.8
23.12.2022	29	64	9.5	13.6
27.12.2022	30	56	9.8	11.8
Protocol	Green mntn, CPCB used	ISIRI PART- 31-2006	ISIRI PART- 3-2001	ISIRI PART- 3-2001

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Test Report No. TLC/V/Env/CBL/13/1222

dt. 02.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CFI.

Name of the client: Ceramand International Limited, Visakhapatnam

Location of sampling: Melagada

Date of Collection: As per details given

Analysis Report for the Month of DECEMBER 2022

Item of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
05.12.2022	34	51	9.2	11.8
06.12.2022	38	52	9.7	12.4
13.12.2022	34	50	9.0	11.7
16.12.2022	37	54	10.3	13.2
19.12.2022	25	42	10.1	12.5
22.12.2022	32	45	10.4	13.5
27.12.2022	29	38	9.3	11.7
Protocol	Gravimetric, CPCB method	ISO16619 PART-2 2011	ISO16619 PART-1 2011	ISO16619 PART-3 2011

All values are given in $\mu\text{g}/\text{m}^3$

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TEST REPORT

Test Report No.TLC/V/Env/CBL/14/0123

dt.01.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL
 Name of the client: Commercial International Limited, Visakhapatnam
 Location of sampling: Gatalapalem
 Date of Collection: As per details given

Analysis Report for the Month of JANUARY-2023

Date of monitoring	PM2.5 Limit: 50 $\mu\text{g}/\text{m}^3$	PM10 Limit: 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit: 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit: 80 $\mu\text{g}/\text{m}^3$
01.01.2023	48	42	7.7	9.9
05.01.2023	32	56	8.5	12.8
09.01.2023	26	54	9.7	13.8
11.01.2023	39	62	11.5	15.8
18.01.2023	32	64	11.0	17.5
28.01.2023	25	52	10.3	14.7
29.01.2023	28	58	10.8	13.8
Protocol	Gravimetric, CPCB method	IS102 PART- 3 - 1984	IS101 PART- 3 - 1981	IS102 PART- 6 - 1988

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Env/CPL/EN023

09.02.2023

Description of Test: Ambient Air Quality Monitoring outside the CPL.

Name of the client: Commanded Interactions Limited, Visakhapatnam

Location of sampling: Madagada

Date of Collection: As per details given

Analysis Report for the Month of JANUARY 2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
03.01.2023	35	93	8.4	12.8
05.01.2023	28	59	10.2	15.3
09.01.2023	36	55	9.5	12.8
11.01.2023	30	99	10.7	13.8
18.01.2023	24	82	5.5	13.2
20.01.2023	31	62	10.9	15.1
24.01.2023	29	84	10.0	12.3
Protocol	Gravimetric, CPCB excel	IMPACT PARS, 33 -2004	IMPACT PARS, 2 -2004	IMPACT PARS, 6 -2004

All values are given in $\mu\text{g}/\text{m}^3$

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TEC/V/Env/CHE/14/8223

dt. 01.03.2023

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Commandel International Limited, Vashikapuram

Location of sampling: Colabaapalem

Date of Collection: As per details given

Analysis Report for the Month of FEBRUARY-2023

Date of monitoring	PM _{2.5} Limit 60 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
01.02.2023	20	64	8.0	21.6
04.02.2023	24	58	9.2	13.8
06.02.2023	27	55	10.4	15.6
08.02.2023	32	68	10.8	16.9
14.02.2023	34	65	11.5	18.5
16.02.2023	22	55	10.8	14.6
21.02.2023	25	53	9.7	15.2
Protocol	Grvi aqmr, CPCB (aqr)	ISO15189 PART- 11-2004	ISO15189 PART- 11-2004	ISO15189 PART- 11-2004

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TEST REPORT

Test Report No. TLCV/Eco/CIL/330223

06.01.93.2023

Description of Test: Ambient Air Quality Monitoring inside the CFL

Name of the client: Caracandul International Limited, Visakhapatnam

Location of sampling: Mahapala

Date of Collection: As per details given

Analysis Report for the Month of FEBRUARY-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	NO_x Limit 80 $\mu\text{g}/\text{m}^3$	NO_2 Limit 80 $\mu\text{g}/\text{m}^3$
01.02.2023	24	52	9.0	14.4
04.02.2023	25	56	10.5	16.8
06.02.2023	18	50	11.0	17.6
08.02.2023	21	60	11.2	18.2
14.02.2023	26	57	9.7	14.4
16.02.2023	30	60	11.2	17.6
21.02.2023	27	58	9.5	14.7
Protocol	Green methods, CPCB issued	IS:1031 PART- 33 : 2009	IS:1031 PART- 2 : 2009	IS:1031 PART- 6 : 2009

All values are given in $\mu\text{g}/\text{m}^3$

For TEAM Lab and Consultants



TEST REPORT

Test Report No. TEL/CV/Env/CIL/08/0125

01.04.2023

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Coremandil International Limited, Visakhapatnam

Location of sampling: Gullabapalem

Date of Collection: As per details given

Analysis Report for the Month of MARCH-2023

Date of monitoring	PM2.5 Limit 40 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
07.03.2023	21	43	7.3	18.2
09.03.2023	23	45	7.9	18.8
13.03.2023	24	55	8.5	13.3
15.03.2023	29	57	8.2	12.8
20.03.2023	32	62	9.8	12.7
23.03.2023	22	48	7.9	15.4
27.03.2023	25	54	8.2	12.3
Protocol	Gravimetric, CPCB (xxv)	IS 182 (xxv)- 21-1996	IS 182 (xxv)- 21-1997	IS 182 (xxv)- 4-1998

For TEAM Labs and Consultants



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TEST REPORT

Test Report No.TLCV/Env/CH/4710023

dt.01.04.2023

Description of Test: Ambient Air Quality Monitoring outside the CHL

Name of the client: Corenand International Limited, Visakhapatnam

Location of sampling: Madagala

Date of Collection: As per details given

Analysis Report for the Month of MARCH-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 50 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 50 $\mu\text{g}/\text{m}^3$
07.03.2023	22	47	7.5	9.9
09.03.2023	24	50	8.0	11.6
13.03.2023	25	55	8.4	13.2
15.03.2023	34	60	9.1	13.8
16.03.2023	24	58	8.8	13.2
22.03.2023	39	60	9.3	12.8
27.03.2023	28	54	8.2	11.6
Protocol	GM 1000, CPCB-1000	IS 1031 PART- 11-1000	IS 1031 PART- 11-1000	IS 1031 PART- 11-1000

All values are given in $\mu\text{g}/\text{m}^3$

For TEAM Lab and Consultants

